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## Commodity compute- and data-transport system design in modern large-scale distributed radio telescopes

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VRIJE UNIVERSITEIT

**Commodity compute- and data-transport  
system design in modern large-scale  
distributed radio telescopes**

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad Doctor aan  
de Vrije Universiteit Amsterdam,  
op gezag van de rector magnificus  
prof.dr. V. Subramaniam,  
in het openbaar te verdedigen  
ten overstaan van de promotiecommissie  
van de Faculteit der Bètawetenschappen  
op vrijdag 20 maart 2020 om 13.45 uur  
in de aula van de universiteit,  
De Boelelaan 1105

door

**Pieter Christiaan Broekema**

geboren te Winschoten

promotoren: prof.dr.ir. H.E. Bal  
prof.dr. R.V. van Nieuwpoort